

**REMARKS**

This Amendment is in response to the final Office Action mailed on December 20, 2005.

Claims 1-15 and 20-26 are allowed over the prior art of record. The patentability of these claims is noted with appreciation. Claims 16-17 stand rejected under 35 U.S.C § 102(b) as being anticipated by U.S. Patent No. 6,601,458 to Gysling *et al.* Claims 18-19 are objected to as being dependent upon rejected base claim(s), but would be allowable if rewritten in independent form.


Independent claim 16 has been amended to recite that "the first pressure and temperature sensors are co-located with the second pressure and temperature sensors." Support for this amendment can be found on Fig. 7 and the text discussing Fig. 7, among other places. On the other hand, the Gysling reference clearly discloses that the two pressure and temperature sensors are disposed at different axial locations to measure properties of the fluids at these different locations. (see col. 3, lines 3-30 and claims 1-5). Hence, claim 16 is believed to be patentable over the Gysling reference. Claims 17-19 depend on claim 16 and are therefore also believed to be presently patentable.

A Request for Continued Examination (RCE) is submitted herewith, so that the Examiner can review an International Search Report and Written Opinion (ISR) issued on February 15, 2006 in connection with International Patent Application No. PCT/US04/28625, published as WO 2005/024365 A2. This international application claims priority to the present application and has entered the U.S. as a continuation-in-part of the present application. Applicants note that the ISR cited U.S. 6,056,436 and U.S. 6,016,702 as relevant art. The '436 reference was already cited in the first Office Action dated January 21, 2005, and therefore is not listed in the attached Information Disclosure Statement.

Applicants believe that \$120.00 for a one-month extension of time for the submission. If any additional fee is due, the Commissioner may charge appropriate fees or credit any overpayments to H.T. Than Law Group, Deposit Account No. 50-1980.

Respectfully submitted,

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